2. In $\triangle PQR$, R is the right angle. Given $\cos P = \frac{144}{145}$ write the other five trig ratios of P. $\sin P =$ tan P =

sec P =

 $\csc P =$

 $\cot P =$

Bellwork

Alg 2

Tuesday, March 24, 2020

AnswERS

1. Solve. Round to the nearest hundredth.

$$16^{x-2} = 2^{2x}$$

$$(2^{4})^{x-2} = 2^{2x}$$

$$4(x-2) = 2x$$

$$4x-8 = 2x$$

-2x

$$\frac{2x = 8}{2}$$

2. In $\triangle PQR$, R is the right angle. Given $\cos P = \frac{144}{145}$ write the other five trig ratios of P.

$$\sin P = \frac{0}{H}$$

$$\sin P = \frac{12}{145}$$

$$\tan P = \frac{6}{A}$$

$$\tan P = \frac{17}{144}$$

$$\sec P = \frac{1}{\cos^2 \frac{1}{145}}$$

$$\csc P = \frac{1}{\sin \rho} = \frac{1}{17}$$
145

$$\cot P = \frac{1}{\tan P} = \frac{1}{\frac{17}{144}}$$

